Science S.O.L Correlations with Project Underground and DCR watershed materials

Standard ES.1 Student will plan and conduct investigations

Belly Crawl Mapping p. 103

Standard ES.2 Student will demonstrate scientific reasoning and logic

Fossil Foot Prints p. 95 Soda Bottle Watersheds p. 57

Standard ES 3. The student will investigate and understand how to read and interpret maps, globes, models, charts, and imagery.

Belly Crawl Mapping p. 103 DCR conservation boundaries on topographic maps

Standard ES.5 Student will investigate and understand how to identify rock-forming and ore minerals based on physical and chemical properties.

Disappearing Rocks p. 67 Salt Block Caves p. 61

Standard ES. 7 Student will investigate and understand the difference between renewable and nonrenewable resources

Lost River Village p. 81 Soda Bottle Watersheds p.57
Groundwater Model Geologic Maps of Virginia

Standard ES.8 Student will investigate and understand geologic processes including plate tectonics.

Moving Rocks p. 87 Disappearing Rocks. p. 67
Salt Block Caves. p. 61 Dripping Crystals p. 71
Sinkholes in Cup Geologic Map of Virginia

Standard ES.9 Student will investigate and understand how freshwater resources are influenced by geological processes and the activities of humans.

Salt Block Caves p. 61 Sinkholes and Caves p. 55
Sinkholes in a Cup Soda Bottle Watersheds p. 57
Moving Rocks p. 87 Lost River Village p. 81
Groundwater Model DCR Watershed Maps and Brochures
DCR Watershed Videos

Standard ES.10 Student will investigate and understand that many aspects of the history and evolution of the Earth and life can be inferred by studying rocks and fossils.

Fossil Footprints p. 95

Life Science

LS. 4 Student will investigate and understand that the basic needs of organisms must be met in order to carry out life processes.

Bat Echoes p. 11 Hello, Who's There p. 37
Strange Neighbors p. 41 Hungry Cave Critters p. 29

LS. 7 Student will investigate and understand that organisms with an ecosystem are dependent on one another and on nonliving components of the environment.

Hungry Cave Critters p.29 Hello, Who's There p. 37

LS. 8 Student will investigate and understand that interactions exist among members of a population.
Click-Click, Sniff – Where's My Pup p. 35 Hungry Cave Critters p. 29

LS. 9 Student will investigate and understand interactions among populations in a biological community.
Bat Echoes p. 11 Hungry Cave Critters p. 29

LS. 10 Student will investigate and understand how organisms adapt to biotic and abiotic factors in an ecosystem.
Hello, Who's There p. 37 CAVO p. 23
Strange Neighbors p. 41 Cave Creations p. 33

LS. 11 Student will investigate and understand that ecosystems, communities, populations and organisms are dynamic and change over time.
Hunger Cave Critters p. 29

LS. 12 Student will investigate and understand the relationship between ecosystem dynamics and human activity.
Bat Echos p. 11 Lost River Village p. 81
Hungry Cave Critters p. 29

LS. 14 Student will investigate and understand that organisms change over time.
Hello, Who's There p. 37 Strange Neighbors p. 41
Fossil Footprints p. 95 Cave Creations p. 33
CAVO p. 23

Standard 6.1 Scientific Investigation, Reasoning and Logic.
Belly – Crawl Mapping p. 103

Standard 6.5 Investigate unique properties of water and its role in the natural and human-made environment.
Salt Block Caves p. 61 Lost River Village p. 81
Belly Crawl Mapping p. 103 Sinkholes in cup
Groundwater model

Standard 6.7 Investigate the natural processes and human interactions that affect watershed systems.
Lost River Village p. 81 Soda Bottle Watersheds p. 57
Sinkholes in Cup Salt Block Caves p. 61
DCR – Va. Watershed posters Groundwater model
DCR - Conservation Boundaries on Topographic maps

Standard 6.9 Investigate public policy decisions relating to the environment.
Soda bottle Watersheds p. 57 Lost River Village p. 81
Sinkholes in Cup Groundwater model
Geologic Maps

5.1 Scientific Investigation, Reasoning and Logic
Belly –Crawl Mapping p. 103

5.7 Earth Patterns, Cycles, and Changes
Disappearing Rocks p. 67
Fossil Footprints p. 95
Salt Block Caves p. 61
Sinkholes in a Cup
Dripping Crystals p. 71
Moving Rocks p. 87
Lost River Village p. 81

4.5 Living Systems
Bat Echoes p. 11
Hello, Who's There p. 31
Hungry Cave Critters p. 29
CAVO p. 23
Strange Neighbors p. 41
Cave Creations p.33

4.8 Resources
Lost River Village p. 81
Groundwater Model
DCR Watershed Brochures
Soda Bottle Watershed p. 57
DCR Watershed Posters

3.4 Life Processes
Bat Echoes p. 11
Click Click, Sniff p. 35
Strange Neighbors p. 41
CAVO p. 23
Hello, Who's There p. 37
Hungry Cave Critters p. 29

3.5 Living Systems
Bat Echoes p. 11
Hungry Cave Critters p. 29

3.6 Living Systems
Hello, Who's There p. 37
CAVE p. 23
Strange Neighbors p. 41

3.10 Resources
Lost River Village p. 81